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## UTILITY PATENT APPLICATION TRANSMITTAL

| Attorney Docket No. |               | No.  | 4041J-000741         |  |
|---------------------|---------------|------|----------------------|--|
| First Inventor Hi   |               | Hiro | tsugu TAKEUCHI et al |  |
| Title               | Ejector Cycle |      |                      |  |

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) Express Mail Label No. | EL 623 486 750 US Mail Stop Patent Application **APPLICATION ELEMENTS** Commissioner for Patents ADDRESS TO: See MPEP chapter 600 concerning utility patent application contents. P.O. Box 1450 Alexandria, VA 22313-1450 1. 🛛 Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) з. 🛛 Specification [Total Pages Computer Readable Form (CRF) (preferred arrangement set forth below) Specification Sequence Listing on: - Descriptive title of the Invention i.  $\square$  CD-ROM or CD-R (2 copies); or Specification Cross References to Related Applications filed in English ii. 🗌 paper - Statement Regarding Fed sponsored R & D c. 

Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention - Brief Summary of the Invention 9. 🔯 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings ( if filed) 10. 37 C.F.R.§3.73(b) Statement Power of - Detailed Description (when there is an assignee) - Claim(s) Attorney - Abstract of the Disclosure 11. English Translation Document (if applicable) 4. 🔯 Drawing(s) (35 U.S.C.113) [Total Sheets 5 12. 🔯 Information Disclosure Copies of IDS 5. Oath or Declaration Statement (IDS)/PTO-1449 [Total Pages Citations a. Newly executed (original or copy) 13. 🔲 **Preliminary Amendment** 14. 🛛 b. Copy from a prior application (37 CFR 1.63 (d)) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🛛 Certified Copy of Priority Document(s) i. ☐ DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) 16. 🔲 Request and Non Publication under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. 🔲 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_ Prior application information: Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS or 

Correspondence address below □ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Harness, Dickey & Pierce, P.L.C. Name P.O. Box 828 Address City Bloomfield Hills State Zip Code 48303 Country United States of America Telephone 248-641-1600 Fax 248-641-0270 Name (Print/Type) H. Keith Mille Registration No. (Attorney/Agent) 22,484

Signature Date July 10, 2003



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## Complete if Known **FEE TRANSMITTAL** Application Number unassigned yet for FY 2003 Filing Date July 10, 2003 First Named Inventor Hirotsugu TAKEUCHI et al Patent fees are subject to annual revision. Examiner Name Applicant claims small entity status. See 37 CFR 1.27 Group / Art Unit TOTAL AMOUNT OF PAYMENT (\$) 790 4041J-000741

| (6)  |  |  |                                    |                  |          |                             | Amornoy Booker No.        |              |  |  |                          |  |              |  |
|--|--|--|------------------------------------|------------------|----------|-----------------------------|---------------------------|--------------|--|--|--------------------------|--|--------------|--|
| METHOD OF PAYMENT (check all that apply)   |  |  |                                    |                  |          | FEE CALCULATION (continued) |                           |              |  |  |                          |  |              |  |
| ☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order ☐ Deposit Account:  |  |  |                                    |                  |          | 3. ADDITIONAL FEES          |                           |              |  |  |                          |  |              |  |
|  |  |  |                                    |                  |          | <u>Large</u>                | Large Entity Small Entity |              |  |  |                          |  |              |  |
| Deposit Country  |  |  |                                    |                  |          | Fee<br>Code                 | Fee<br>(\$)               | Fee<br>Code  | Fee<br>(\$)  | Fee Description  | Fee Paid                 |  |              |  |
| Account  | 08-0750  |  |                                    |                  |          |                             | Ì                         | 1051         | 130  | 2051   | 65                       | Surcharge - late filing fee or oath                              |              |  |
|  |  |  |                                    |                  |          | 1052                        | 50                        | 2052         | 25   | Surcharge - late provisional filing fee or cover sheet.        |                          |  |              |  |
| Deposit  |  |  |                                    |                  |          | 1053                        | 130                       | 1053         | 130  | Non-English specification                                      |                          |  |              |  |
| Account Harness, Dickey & Pierce, P.L.C.   |  |  |                                    |                  | 1812     | 2,520                       | 1812                      | 2,520        | For filing a request for reexamination                 |  |                          |  |              |  |
| Name   |  |  |                                    |                  | 1804     | 920*                        | 1804                      | 920*         | Requesting publication of SIR prior to                 |  |                          |  |              |  |
| The Commissioner is authorized to: (check all that apply)  |  |  |                                    |                  |          | 1                           |                           |              |  | Examiner action  |                          |  |              |  |
| ☐ Charge fee(s) indicated below ☒ Credit any overpayments ☒ Charge any additional fee(s) during the pendency of this application |  |  |                                    |                  | 1805     | 1,840*                      | 1805                      | 1,840*       | Requesting publication of SIR after<br>Examiner action |  |                          |  |              |  |
| ☐ Charge fee(s) indicated below, except for the filing fee   |  |  |                                    |                  |          | 1251                        | 110                       | 2251         | 55   | Extension for reply within first month                         |                          |  |              |  |
| to the above-identified deposit account.  FEE CALCULATION  |  |  |                                    |                  |          | 1252                        | 410                       | 2252         | 205  | Extension for reply within second month                        |                          |  |              |  |
| 1. BASIC I   | ILING FEE  |  |                                    |                  |          |                             |                           | 1253         | 930  | 2253   | 465                      | Extension for reply within third month                           |              |  |
| Large Entity   | Small Entit  | _  | _                                  |                  |          |                             |                           | 1254         | 1,450  | 2254   | 725                      | Extension for reply within fourth month                          |              |  |
| Fee Fee<br>Code (\$)   | Fee Fe   |  | e Descri                           | ption            |          | Eoo Daid                    |                           | 1255         | 1,970  | 2255   | 985                      | Extension for reply within fifth month                           |              |  |
| 1001 750   | 2001 37  |  | Design filing fee Plant filing fee |                  |          |                             | 7                         | 1401         | 320  | 2401   | 160                      | Notice of Appeal   |              |  |
| 1007 730   | 2001 37  |  |                                    |                  |          | 730                         | $\dashv$                  | 1402         | 320  | 2402   | 160                      | Filing a brief in support of an appeal                           |              |  |
| 1002 530   | 2002 10  |  |                                    |                  |          | -{                          | 1403                      | 280          | 2403   | 140  | Request for oral hearing | $\vdash$   |              |  |
| 1004 750   | 2004 37  | 5 Re                                       |                                    |                  |          |                             | 1                         | 1451         | 1,510  | 1451   | 1,510                    | Petition to institute a public use proceeding                    |              |  |
| 1005 160 2005 80 Provisional filling fee   |  |  |                                    |                  | 1452     | 110                         | 2452                      | 55           | Petition to revive – unavoidable                       |  |                          |  |              |  |
|  | SHE  | OTAL (                                     | 4)                                 |                  | г        | (\$) 750                    | _                         | 1453         | 1,300  | 2453   | 650                      | Petition to revive – unintentional                               |              |  |
|  |  | O 1 A L (                                  | ''                                 |                  |          | (4) 750                     |                           | 1501         | 1,300  | 2501   | 650                      | Utility issue fee (or reissue)                                   | -            |  |
| 2. EXTRA CLA   | IM FEES  |  |                                    |                  |          |                             |                           | 1502         | 470  | 2502   | 235                      | Design issue fee   |              |  |
|  |  |  | xtra                               | Fee t            |          | Fee                         |                           | 1503         | 630  | 2503   | 315                      | Plant issue fee  | <b>├</b> ──┤ |  |
| Total Claims 1   | 2 -20 **   | = [0                                       | Claims                             | X belov          | <u>*</u> | = 0                         | _                         | 1460         | 130  | 1460   | 130                      | Petitions to the Commissioner                                    |              |  |
| Independent  |  | _  |                                    | ^ <del> </del> = | ==       | * <del>  -</del>            | =                         | 1807         | 50   | 1807   | 50                       | Processing fee under 37 CFR 1.17 (q)                             |              |  |
| Claims   | -3 **  | = 0  | ,                                  | x                |          | = 0                         |                           | 1806         | 180  | 1806   | 180                      | Submission of Information Disclosure<br>Stmt                     |              |  |
| Multiple Dependent  X = 0  |  |  |                                    |                  |          | 8021                        | 40                        | 8021         | 40   | Recording each patent assignment per property (times number of | 40                       |  |              |  |
| Large Entity   Small Entity Fee Fee Fee  |  |  |                                    |                  |          | 1809                        | 750                       | 2809         | 375  | properties)  |                          |  |              |  |
| Code (\$)  | Code   | (\$)                                       | Fee De                             | scriptio         | <u>n</u> |                             |                           | 1003         | ′30  | 2009   | 3/3                      | Filing a submission after final rejection<br>(37 CFR § 1.129(a)) | '            |  |
| 1202 18  | 2202   | 9  | Claims                             | in exces         | s of 20  |                             |                           | 1810         | 750  | 2810   | 375                      | For each additional invention to be                              |              |  |
| 1201 84  | 2201   | 42   | Indepe                             | ndent cla        | ims in   | excess of 3                 | 3                         | ĺ            | ļ  |  |                          | examined (37 CFR § 1.129(b))                                     |              |  |
| 1203 280   | 2203   | 140  | Multiple                           | e depend         | lent cla | im, if not pa               | aid                       | 1801         | 750  | 2801   | 375                      | Request for Continued Examination (RCE)                          |              |  |
| 1204 84  | 2204   | 2204 42 ** Reissue independent claims over |                                    |                  |          | 1802                        | 900                       | 1802         | 900  | Request for expedited examination                              | <del></del>              |  |              |  |
| 1205 18  | onginal patent  75 18 2205 9 ** Reissue claims in excess of 20 and |  |                                    |                  |          |                             |                           |              |  | of a design application  |                          |  |              |  |
| over original patent   |  |  |                                    |                  |          | Other fee (specify)         |                           |              |  |  |                          |  |              |  |
| SUBTOTAL (2) (\$) 0  |  |  |                                    |                  |          | *Reduc                      | ed by Pr                  | asic Filing  | ı Fee Pr   | aid SUBTOTAL (3)   |                          |  |              |  |
| tter annih na kanada sa   |  |  |                                    |                  |          |                             | ou by Da                  | asio ciiiti( | 11 00 176  | (\$) 40  |                          |  |              |  |
| **or number previously paid, if greater; For Reissues, see above   |  |  |                                    |                  | L        |                             | _                         |              |  | *  |                          |  |              |  |

| SUBMITTED BY      |                       | //                               |        | Co        | mplete (if applicable) | <u> </u> |
|-------------------|-----------------------|----------------------------------|--------|-----------|------------------------|----------|
| Name (Print/Type) | H. Keith Miller, Esq. | Registration No. Attorney/Agent) | 22,484 | Telephone | 248-641-1600           | $\neg$   |
| Signature         | N/A/K                 |                                  |        | Date      | July 10, 2003          | ]        |